

Program Letter
January, 2002

Major code changes associated with the Phase I Comm 10 Code Revision

This program letter is an overview summarizing the *most significant changes* resulting from the Phase I code revision process. This program letter does not address every change, nor compare and detail many of the code and language applications or code modifications that will occur with this phase of the code revision that was effective August 1, 2002. The Phase I revision of Comm 10 resulted in several sections of the former code being repealed (e.g., Comm 10.415 (10), Dispensing) because the application or requirement is now provided for in one of the respective national standards adopted by the code. The Comm 10 Code Revision Committee is actively working on the Phase II revision that will have significantly more technical and language modifications. As the regulatory, construction and owner/operation communities experience a working relationship with Phase I, code interpretations and clarifications can be expected, as well as periodic updates to this program letter.

Regulatory item	Comm 10 reference	Comment
Flammable / combustible <u>and</u> hazardous liquids	Comm 10.001(2)(a)	Incorporates CERCLA list hazardous substances into the regulatory scope of Comm 10. ♦ Specific technical requirements for tank system configuration and design of CERCLA non-flammable or non-combustible liquids are not currently addressed in the rule and will be included in the Phase II revision.
Definitions	Comm 10.01	Revises various definitions to address code application.
Standards adopted by reference.	Comm 10.25	Adoption of several new standards and current editions of other previously adopted standards. ♦ Refer to adopted standard version comparison table at the end of this program letter.
Regulatory scope based upon flash point.	Comm 10.01 (22)	Liquids regulated by the code are no longer restricted to the 200° F or less flash point. ♦ The flash point identified on material safety data sheets (MSDS) will determine the classification for regulation (Class I, II, IIIA, or IIIB). For example: MSDS flash point designation above 200° F will be considered Class IIIB, the flash point designated "NA" will be considered unregulated as a flammable or combustible liquid. ♦ Technical design and system configuration requirements for Class IIIB liquid storage are not retroactive. Class IIIB systems that are new or upgraded after August 1, 2002 are required to comply with Comm 10.
Material approval requirements for flex connectors.	Comm 10.125 (1) & (4).	The department has excluded the material approval requirement by recognizing flex-connectors listed by UL or other recognized listing organizations.
Secondary containment (double wall) tanks.	Comm 10.125 (1) & (4).	Two significant changes: 1. The department has excluded the material approval requirement by recognizing double wall

	Comm 10.25-4	<p>and closed and open top secondary containment tanks listed by UL or other recognized listing organizations.</p> <ul style="list-style-type: none"> ◆ Note that the general listing classification (e.g., UL 2085) may have listing approval options that differ between tanks within that general classification. As an example, not all UL 2085 tanks maintain collision protection within the manufacturer's UL approval. <p>2. NFPA 30-2.3.2.3.3 (a) limits the size of a secondary containment tank to 12,000-gallon capacity.</p> <ul style="list-style-type: none"> ◆ Existing material approvals (MA) will continue in effect until the expiration date of the MA, authorizing the use to the capacity listed in the MA. ◆ Installation of new secondary containment tanks greater than 12,000-gallon capacity must be supported by a Material Approval or a Petition For Variance.
Tank registration	Comm 10.13	Consolidates new and existing tank registration requirements. Clarifies exclusions. Hazardous substance and Class IIIB liquid storage tanks that were not formerly regulated are required to be registered as existing tanks.
Tank permit	Comm 10.16	Describes the information that must be submitted for initial permit application and subsequent renewals.
Waste oil classification	Comm 10.335 (20)	The waste oil classification has moved from a Class IIIA to a Class IIIB. Refer to NFPA 30 for technical requirements.
Corrosion protection system testing	Comm 10.55 (2)	<p>Cathodic and impressed current corrosion protection (CP) systems are required to be tested annually.</p> <ul style="list-style-type: none"> ◆ CP systems will move into the annual test period at the time they complete the current three-year cycle. The annual test period will be one year from date of last test.
Heating oil tank closure	Comm 10.475	Implementation of removal and notification requirements. Identifies responsible party for specific obligations.
Performance standards	Comm 10.512	Major modification to this section. Requires design by a certified NACE corrosion specialist and also that the specialist must make at least one personal visit to the site.
Maximum vehicle fueling AST capacity.	NFPA 30A-4.3.2	Adoption of the 2000 edition of NFPA 30A increases the maximum tank capacity for Class I and II to 12,000 gallons per tank and 48,000 gallons per site.
Aboveground storage tank integrity inspection	Comm 10.25-1 & -8	Two standards have been adopted addressing periodic integrity assessment of ASTs. STI SP001-00 applies to shop built tanks and API 653 to field erected tanks. Specific implementation dates and tank capacity thresholds will be prescribed in the Phase II revision.
Non retail dispenser setback	NFPA 30A-4.3.2.6	A significant change – previously there was not a setback requirement between the dispenser and AST at non-retail facilities. The 2000 edition requires a 25 ft. setback unless the AST is in a vault or a protected or fire resistant tank. Protected tanks cost

		approximately \$400 more than a traditional UL 142.
Attendant's view of dispensing area AND customer communication.	NFPA 30A-9	Significant change – previous editions of the NFPA standard required that the dispensing area be in clear view of the attendant (1987 – 30A-8-4.7) and a method of communication between the attendant and customer be in place. Both requirements are absent in the 2000 edition of NFPA 30A.
Kerosene/heating fuel dispensing	NFPA 30A-6.3.5	The 2000 edition of NFPA 30A requires that dispensing of heating fuels shall be at least 20 ft. from any dispensing device for Class I liquids. <ul style="list-style-type: none"> ◆ Previously, the NFPA standard prohibited heating fuels from being dispensed on the same island. ◆ Comm 10.40(2)(a) maintains the 10 ft. kerosene dispenser setback from Class I dispensers.
Collision protection	Comm 10.347	Section created to address collision protection requirements. <ul style="list-style-type: none"> ◆ Applies to tanks that are located in an area where there is a reasonable risk of impact due to adjacent warehousing, fleet, service or public traffic areas. ◆ This requirement is not intended to apply to waste oil tanks in an automotive service area unless the tank is directly at the head of a service bay.
Vehicle fueling AST setback	Comm 10.415	Table merging the NFPA tank system setbacks with the former edition of Comm 10 setbacks.
Vehicle fueling dispensing	Comm 10.415(10)	Paragraph (10) deleted since dispensing from aboveground tanks is now covered by NFPA 30A. Gravity dispensing is only allowed for systems conforming to NFPA 395.
Certification of installation	Comm 10.51(7)	Certification of installation - requires installer to provide owner and inspector with completed installation checklist upon completion of installation or upgrade.
AST overfill alarm	NFPA 30, 2.3.2.3.3	NFPA added a requirement that ASTs be provided with a mechanism to alarm at 90% and shut-off the flow of product being transferred at 95%. A program letter <u>Overfill Protection Requirements for Secondary Containment Tanks</u> has been issued addressing how Commerce will interpret and apply the requirement.

Comparison of adopted standard versions between the former and revised Comm 10 code.

Table 10.25-1

API		American Petroleum Institute 1220 L Street, NW Washington, DC 20005
Standard Number	Reference	Title
1. API 650 - 98	Updated	Welded Steel Tanks For Oil Storage.
2. API 651 - 97	New	Cathodic Protection of Aboveground Petroleum Storage Tanks.
3. API 652 - 97	New	Lining of Aboveground Petroleum Storage Tank Bottoms.
4. API 653 - 2001	New	Tank Inspection, Repair, Alteration, & Reconstruction.

5. API 1604 - 96	Updated	Closure of Underground Petroleum Storage Tanks.
6. API 1615 - 96	Updated	Installation of Underground Petroleum Storage Systems.
7. API 1621 - 93	Updated	Bulk Liquid Stock Control at Retail Outlets.
8. API 1631 - 2001	Updated	Interior Lining & Periodic Inspection of Underground Storage Tanks.
9. API 1632 - 96	Updated	Cathodic Protection of Underground Petroleum Storage Tanks & Piping Systems.
10. API 1637 - 95	New	Using the API Color-Symbol System to Mark Equipment & Vehicles for Product Identification at Service Stations & Distribution Terminals.
11. API 2000 - 98	New	Venting Atmospheric & Low-Pressure Storage Tanks.
12. API 2015 - 2001	New	Requirements for Safe Entry & Cleaning of Petroleum Storage Tanks.
13. API 2200 - 94 (Reaffirmed in 1999)	Updated	Repairing Crude Oil, LP Gas and Product Pipelines.
14. API 2350 - 96	New	Overfill Protection for Storage Tanks in Petroleum Facilities.
15. API 2610 - 94	New	Design, Construction, Operation, Maintenance and Inspection of Terminal and Tank Facilities.

Table 10.25-2

KWA		Ken Wilcox Associates 1125 Valley Ridge Drive Grain Valley, MO 64029
Standard Reference Number		Title
	New	Recommended Practice for Inspecting Buried Lined Steel Tanks Using a Video Camera.

Table 10.25-3

NACE		NACE International P.O. Box 218340 Houston, TX 77218
Standard Reference Number		Title
1. RP 0169-96	Updated	Recommended Practice, Control of External Corrosion on Underground or Submerged Metallic Piping Systems.
2. RP 0188-99	New	Discontinuity (Holiday) Testing of Protective Coatings.
3. RP 0190-95	New	External Protective Coatings for Joints, Fittings & Valves on Metallic Underground or Submerged Pipelines & Piping Systems.
4. RP 0193-2001	New	External Cathodic Protection of On-Grade Carbon Steel Storage Tank Bottoms.
5. RP 0285-95	New	Recommended Practice, Control of External Corrosion of Metallic Buried, Partially Buried, or Submerged Liquid Storage Systems.
6. RP 0286-97	New	Electrical Isolation of Cathodically Protected Pipelines.

7. TM 0497-97	New	Measurement Techniques Related to Criteria for Cathodic Protection on Underground or Submerged Metallic Piping Systems.
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Table 10.25-4

NFPA		National Fire Protection Association 1 Batterymarch Park Quincy, MA 02269
Standard Number	Reference	Title
1. 30 - 2000	Updated	Flammable and Combustible Liquids Code.
2. 30A - 2000	Updated	Code for Motor Fuel Dispensing Facilities & Repair Garages.
3. 30B - 1998	New	Code for the Manufacture & Storage of Aerosol Products.
4. 31 - 2001	Updated	Standard for the Installation of Oil-Burning Equipment.
5. 33 - 2000	Updated	Standard for Spray Application Using Flammable and Combustible Materials.
6. 34 - 2000	Updated	Standard for Dipping and Coating Processes Using Flammable or Combustible Liquids.
7. 35 - 1999	Updated	Standard for the Manufacture of Organic Coatings.
8. 37 - 1998	Updated	Standard for the Installation and Use of Stationary Combustion Engines and Gas Turbines.
9. 45 - 2000	Updated	Standard on Fire Protection for Laboratories Using Chemicals.
10. 68 - 1998	New	Standard for Venting of Deflagrations.
11. 326 - 1999	New	Standard for Safeguarding Tanks & Containers for Entry, Cleaning or Repair.
12. 385 - 2000	Updated	Standard for Tank Vehicles for Flammable and Combustible Liquids.
13. 395 - 1993	New	Standard for Storage of Flammable & Combustible Liquids on Farms & Isolated Sites.
14. 407 - 2001	New	Standard for Aircraft Fuel Servicing.
15. 415 - 1997	New	Standard for Airport Terminal Buildings, Fueling Ramp Drainage and Loading Walkways.

Table 10.25-5

NLPA		National Leak Prevention Association 7685 Fields Ertel Road Cincinnati, OH 45241
Standard Number	Reference	Title
1. 632 - 1990	Updated	Internal Inspection of Steel Tanks for Upgrading With Cathodic Protection Without Lining.

Table 10.25-6

PEI		Petroleum Equipment Institute P.O. Box 2380
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		Tulsa, OK 74101
Standard Number	Reference	Title
1. RP100, 2000	Updated	Recommended Practices for Installation of Underground Liquid Storage Systems.
2. RP200, 1999	Updated	Recommended Practices for Installation of Aboveground Storage Systems for Motor Vehicle Fueling.
3. RP300, 1997	Updated	Recommended Practices for Installation and Testing of Vapor Recovery Systems at Vehicle Fueling Sites.
4. Lexicon, 1995	New	Petroleum Equipment Lexicon.

Table 10.25-7

SSPC		Society for Protective Coatings 40 24 th Street Pittsburgh, PA 15222
Standard Number	Reference	Title
1. VIS 2	New	Standard Method of Evaluating Degree of Rusting On Painted Steel Surfaces.

Table 10.25-8

STI		Steel Tank Institute 570 Oakwood Road Lake Zurich, IL 60047
Standard Number	Reference	Title
1. SP001-00	New	Standard for Inspection of In-Service Shop-Fabricated Aboveground Tanks for Storage of Combustible and Flammable Liquids.